

# Masterflex® L/S® Digital Drives

Graphical interface and  
a maintenance-free  
high-accuracy motor

These L/S® precision drives offer high-accuracy motors and a graphical interface that makes setup and operation easier than ever. The high-contrast LCD shows four operating modes: continuous run, timed dispense, copy dispense, and volume dispense allowing you to view pump performance continually.

A programmable dispense interval allows hands-free dispensing and filling, and a cumulative volume feature totalizes volume dispensed over multiple cycles. Programmed calibration ensures dispense and display accuracy—drive stores one calibration value per tubing size.

Computer-compatible models operate as stand-alone drives or they can be interfaced with a PC.

Process drives feature a NEMA 4X / IP66-rated housing; choose 316 stainless steel housing for sanitary and washdown applications or powder-coat steel for process, water treatment, and manufacturing applications where stainless steel is not a critical requirement.

## Applications

- Dispensing and filling
- Fluid metering, feed, and transfer
- Acid/base pH control
- Precision additive, flavoring, and colorant delivery
- Sterile filtration and fluid transfer
- Automated fluid transfer
- Food/beverage and dairy process

**MASTERFLEX®**  
part of avantor™



- Wider speed range delivers flows from 0.001 to 3400 mL/min with L/S pump tubing
- Graphical LCD shows all operating parameters—ideal for critical process monitoring
- Brushless, maintenance-free motor offers  $\pm 0.1\%$  speed control accuracy with a 6000 to 1 turndown
- Menu-driven interface lets you select one of seven languages for programming and operation
- Dispense by volume or time with a programmable delay interval between cycles
- Cumulative volume function tracks total volume pumped or dispensed
- Scalable remote control of speed, direction, and start/stop enable process automation and integration
- Models available with open-head sensor capability— instantly shuts down drive

**Flow Rates in mL/min with Masterflex® L/S® Pump Heads\***

rpm	Precision pump tubing						High-Performance Precision pump tubing			
	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18	L/S 15	L/S 24	L/S 35	L/S 36
	Standard, Easy-Load, Easy-Load II, Easy-Load 3						Multichannel, Standard, Easy-Load II, Easy-Load 3, High-Performance			
	Cartridge, Multichannel			Cartridge			Easy-Load			
0.1 to 600	0.006 to 36	0.021 to 130	0.08 to 480	0.17 to 1000	0.28 to 1700	0.38 to 2300	0.17 to 1000 (0.18 to 1100)	0.28 to 1700 (0.30 to 1800)	0.38 to 2300 (0.43 to 2600)	0.48 to 2900 (0.57 to 3400)
0.02 to 100	0.001 to 6	0.004 to 21	0.016 to 80	0.033 to 170	0.057 to 280	0.077 to 380	0.033 to 170 (0.036 to 183)	0.057 to 280 (0.057 to 300)	0.077 to 380 (0.086 to 433)	0.096 to 480 (0.113 to 566)

\*Flow rates in parentheses are for the L/S High-Performance pump head.



**Specifications & Ordering Information**

rpm	Speed control (resolution)	Open-head sensor	Pump heads accepted	Motor size	IP rating	Dimensions (L x W x H)	Power (50/60 Hz)		Cat. No.
							VAC	AMPS	
<b>Standard digital drives</b>									
0.1 to 600	±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)	No	2	1/10 hp (75 W)	IP33	25.4 x 21.6 x 21.6 cm (10" x 8½" x 8½")	90 to 260	2.2 at 115 VAC, 1.1 at 230 VAC	MFLX07522-20
0.02 to 100		Yes	4						MFLX07522-28
		No							MFLX07522-30
		Yes							MFLX07522-38
<b>Computer-compatible/programmable digital drives</b>									
0.1 to 600	±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)	No	2	1/10 hp (75 W)	IP33	25.4 x 21.6 x 21.6 cm (10" x 8½" x 8½")	90 to 260	2.2 at 115 VAC, 1.1 at 230 VAC	MFLX07551-20
0.02 to 100		Yes	4						MFLX07551-30
<b>Digital process drives with 316 stainless steel housing</b>									
0.1 to 600	±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)	No	2	1/10 hp (75 W)	IP66	0.5 x 22.9 x 23.5 cm (12" x 9" x 9¼")	90 to 260	2.2 at 115 VAC, 1.1 at 230 VAC	MFLX07575-30
0.02 to 100		Yes	4						MFLX07575-38
		No							MFLX07575-35
<b>Digital process drives with powder-coat steel housing</b>									
0.1 to 600	±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)	No	2	1/10 hp (75 W)	IP66	30.5 x 22.9 x 23.5 cm (12" x 9" x 9¼")	90 to 260	2.2 at 115 VAC, 1.1 at 230 VAC	MFLX07575-40
0.02 to 100		Yes	4						MFLX07575-48
		No							MFLX07575-45

What's included: 6-ft (1.8-m) line cord with IEC 320/CEE22 socket. Drives are shipped with country-specific plug/cord set.

**Complete Pump Systems**

System	Flow range (mL/min)	What's included			Cat. No.
	0.28 to 1700	L/S Easy-Load® II pump head 77200-62	C-Flex ULTRA® L/S 24 tubing 06434-24 (10 ft)	Digital drive 07522-20 0.1 to 600 rpm	MFLX77921-75
	0.08 to 480	L/S Easy-Load II pump head with Open-Head Sensor 77200-30	C-Flex ULTRA L/S 16 tubing 06434-16 (10 ft)	Digital drive 07522-28 0.1 to 600 rpm	MFLX77921-77
	0.28 to 1700	L/S Easy-Load II pump head with Open-Head Sensor 77200-32	C-Flex ULTRA L/S 24 tubing 06434-24 (10 ft)	Digital drive 07522-28 0.1 to 600 rpm	MFLX77921-79